

## DEPARTMENT OF THE AIR FORCE AIR FORCE CIVIL ENGINEER CENTER

INSTALLATION RESTORATION PROGRAM
OTIS AIR NATIONAL GUARD BASE, MA 02542-1320

10 November 2016

Installation Restoration Program AFCEC/JBCC 322 East Inner Road Otis ANG Base, MA 02542-5028

The Installation Restoration Program (IRP) sampled your residential private well on 05 October 2016. The sample collected from your well was analyzed for perfluorinated compounds (PFCs) and 1.4-dioxane. The chemicals that we sampled for in your well have been detected above standards/advisories in the nearby Ashumet Valley groundwater plume that the Air Force is currently investigating. A certified laboratory used U.S. Environmental Protection Agency (EPA) approved methods for analyzing your water samples.

In May 2016, the EPA adopted a final health advisory value (HA) of 0.07 micrograms per liter (μg/L) for two of the PFCs, perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA), in drinking water. In situations where both PFOS and PFOA are present in drinking water, it is recommended that the concentrations be added together and the sum compared to the 0.07 μg/L HA. Note that there are no \*\*

Federal or State standards or health advisories for the other PFCs. The Massachusetts state standard for 1.4-dioxane in a drinking water source is 0.3 μg/L.

No.1,4-dioxane or PFOA were detected in the sample collected from your private well on 05 October 2016. PFOS was detected, but at a concentration that is below the final HA for this compound in drinking water. A table that summarizes the results for your well and the current drinking water standards/health advisories is attached to this letter. More information about PFCs and 1,4-dioxane can be found online at <a href="https://www.epa.gov/ground-water-and-drinking-water/drinking-water-health-advisories-pfou-and-pfos">https://www.epa.gov/ground-water-and-drinking-water/drinking-water-health-advisories-pfou-and-pfos</a> and <a href="https://www.epa.gov/sites/production/files/2014-03/documents/ffro\_lactsheet\_contaminant\_14-dioxane\_january2014\_final.pdf">https://www.epa.gov/sites/production/files/2014-03/documents/ffro\_lactsheet\_contaminant\_14-dioxane\_january2014\_final.pdf</a>.

Your well was identified for sampling because your property is located near an Ashumet Valley plume treatment system infiltration gallery, which returned treated water from the plant to the groundwater near Currier Road. The emerging contaminants 1.4-dioxane and PFCs were detected in this treatment plant effluent at concentrations below the available standard/health advisories. In response to these detections, AFCEC stopped discharging treatment plant effluent to the Currier Road trench on 29 September 2015.

For more information or to request a copy of your laboratory summary report please call/email Doug Karson, Community Involvement Lead at (508) 968-4678 x 2 or <a href="mailto:douglas.karson/a.us.al/mil">douglas.karson/a.us.al/mil</a>. You may also contact Ellie Donovan, Regional Planner, Massachusetts Department of Environmental Protection, at (508) 946-2866; ellie.donovan/a.state.ma.us.

Sincerely

ROSE H. FORBES, P.F.

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Remediation Program Manager

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Attachment: Summary Table -

 David Carignan, Falmouth BOH Len Pinaud/Ellie Donovan, MassDEP Jan Sullivan/Marc Nascarella, MassDPH Doug Karson, AFCEC

## Summary of Private Well Analytical Results

1,4-Dioxane (µg/L)	つったりしつまっ	CZ	J. J. V.	Ş
A CLIPPIN		QN	QN	QN
PFHxS (µg/L)		0 0039 J	GN	Q
PFIID A		2	02	Q
PFBS (197L.)		0.0012.3	CZ	C 9000 0
[PFOS+PFOA] (µg/L) EPA HA = 0.07		0.0024	0.0006.0	0.0021.1
PFOA (µg/L) EPA HA = 0.07	GIX		2	2
PFOS (µg/L) EPA HA = 0.07	0.0024.1	0.0003	1 5000	7
Date	11/3/2015	6/20/2016	10/5/2016	Per 2016
Location	Soussucart	KS0030CAPE	SSOCIOCAPE	lata Source, AFCEC, November

Notes

EPA = U.S. Environmental Protection Agency

GW-1 = MCP Method 1 Groundwater-1 Standard

HA = Final EPA Health Advisory Value

J = estimated concentration

MCP = Massachusetts Contingency Plan

ND = not detected

Fg/L = micrograms per hier

PFBS = Perfluorobutane Suffonate Perfundated Compounds

PFHxS = Perfluorohexane Sulfonate PFHpA = Perfluoroheplanoic acid

PFNA = Perfluorenonanoic acid PFOA = Perfluoroportanoic acid

PFOS = Perfluorooctane Su fonate

<sup>1.</sup> There are no EPA HAs or other drinking water standards/guide/nes available for PFBS. PFHpA. PFHvS. or PFNA.

<sup>2.</sup> Values flagged with a "J" are estimated concentrations.